

Title (en)

Middle axle support apparatus for utility vehicles

Title (de)

Aufhängevorrichtung für die dritte Achse eines Nutzfahrzeugs

Title (fr)

Dispositif de suspension pour le troisième essieu d'une véhicule utilitaire

Publication

**EP 1298042 A3 20040107 (EN)**

Application

**EP 02078622 A 20020904**

Priority

US 96447701 A 20010928

Abstract (en)

[origin: EP1298042A2] A utility vehicle (10) is provided with a middle axle (27) that is mounted at the end of a bogey beam (30) for rotational movement relative to the frame of the vehicle. The middle axle is restrained longitudinally by support links (29) that are pivotally connected at a location forward of the rear drive axle. The middle axle is formed by a pair of stub axles interconnected by a support beam that is pivotally connected to the rearward end of the bogey beam. Vertical movement of the middle axle support wheels results in a corresponding vertical movement of the rearward end of the bogey beam and a rotation of the support beam about its pivotal connection on the bogey beam. The configuration of the support links provides sufficient slack in the drive mechanism to the middle axle during rotational movement thereof so as to allow a slight twisting of the drive mechanism during oscillation of the middle axle. <IMAGE>

IPC 1-7

**B62D 61/10**

IPC 8 full level

**B62D 7/10** (2006.01); **B62D 61/12** (2006.01)

CPC (source: EP US)

**B62D 7/10** (2013.01 - EP US); **B62D 61/125** (2013.01 - EP US); **B60G 2200/314** (2013.01 - EP US); **B60G 2300/02** (2013.01 - EP US)

Citation (search report)

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Designated contracting state (EPC)

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**EP 1298042 A2 20030402; EP 1298042 A3 20040107; EP 1298042 B1 20060719**; AT E333405 T1 20060815; DE 60213177 D1 20060831; DE 60213177 T2 20061116; US 2003062203 A1 20030403; US 6536545 B1 20030325

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